

ONE SHOT SHOVEL

FIELD OF THE INVENTION

The present invention relates to digging and cutting tools and more particularly, relates to a shovel.

BACKGROUND OF THE INVENTION

Numerous digging and cutting tools are known in the prior art and are commercially available. Widely utilized are two types of shovels wherein a first type is one having a relatively flat bottom surface and a second type wherein the upper surface has a generally concave configuration. Particularly with those shovels having a flat surface, sides may be provided to prevent the material being shovelled from falling off the shovel.

There also have been proposals in the art for shovels having a configuration suited to specialised purposes. Many of these modified implements have been known for a number of years and thus, reference may be had to U.S. Patent 2,49,665 which shows a vegetable and plant cutter which is provided with a V-shaped recess having cutting edges to sever the stem of the plant and cause the latter to fall into a bowl.

A weed cutter attachment for a round headed shovel blade is known from U.S. Patent 3, 868,775. A chopping spade is shown in U.S. Patent 3,993,340 wherein the patentee teaches an arrangement wherein there is a collapsible chopping spade for greater portability.

Also known in the art are other types of tools such as the hand held grass edging tool shown in U.S. Patent 5,964,299 wherein there is provided a flat blade having a generally inwardly disposed V-shaped bottom edge and a pair of opposite side edges also having V-shaped portions formed therein.

A shovel having an outwardly extending portion from the side edge is shown in U.S.

Patent 432,472. The shovel or spade is designed to sever or cut roots with the use of the side portions which are designated by the patentee as knives.

A shovel which also has an upwardly extending side edge is shown in U.S. Patent 887,009 wherein one of the side edges has an auxiliary blade integrally connected with the main blade and extending at right angles thereto. The device is intended for the cutting of sod and the removal or lifting thereof.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a shovel having a blade which is useful for severing roots and for digging holes in a soil or similar medium.

According to one aspect of the present invention, there is provided a shovel which has a blade and a handle, the blade having a shovel front edge, a shovel rear edge, first and second shovel side edges, a front surface and a rear surface, first and second wings extending outwardly and upwardly from respective shovel side edges, each of said wings having a wing front edge and a wing rear edge, each of said wing front edges merging with a respective shovel side edge at a point rearwardly of said shovel front edge.

The blade of the shovel of the present invention may either have a generally concave configuration as is well known in the art or alternatively, may be in the form of a spade which has a relatively flat surface. Similarly, the shovel may be formed of any of the known metallic materials suitable for the purpose.

The handle portion of the shovel again may be any design which is suitable. The handle may thus range from a straight rod-like member to one having a D-handle formed at the end thereof. Similarly, the connection of the handle to the shovel may be done in any conventional manner known to those knowledgeable in the art.

BRIEF DESCRIPTION OF THE DRAWINGS

Having thus generally described the invention, reference will be made to the accompanying drawings illustrating an embodiment thereof, in which :

Figure 1 is a perspective view of a shovel according to an embodiment of the present invention, with the handle portion being shown in dotted lines;

Figure 2 is a top elevational view thereof;

Figure 3 is a side elevational view thereof;

Figure 4 is a front elevational view thereof;

Figure 5 is a cross-sectional view taken along the lines 5-5 of Figure 2; and

Figure 6 is a sectional view taken along the lines 6-6 of Figure 2.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to the drawings in greater detail and by reference characters thereto, there is illustrated a shovel generally designated by reference numeral 40 and which includes a shaft 42 having a D handle 44 at the end thereof.

A blade portion 10 includes a hosel 46 for receiving shaft 42 in a conventional manner.

Blade 10 has a front surface 12 and a rear surface 14, with the central portion having a generally concave configuration as is well known in the art.

Blade 10 is defined by a first side edge 16 and a second side edge 18. There is also a rear edge 20 and a front edge 22. As may be seen, front edge 22 is formed as first side edge 16 and second side edge 18 extends arcuately inwardly.

Extending upwardly from first side edge 16 is a first wing generally designated by reference numeral 24.

First wing 24 has a first wing front edge 26 which, as may be best seen in Figure 3, includes a straight portion and then a lower portion merging with first side edge 16 of blade 10. First wing 24 is also defined by a first wing rear edge 28 which extends outwardly from a point adjacent to the shovel rear edge 20. First wing front edge 26 and first wing rear edge 28 are connected by an arcuate first wing top edge 30. A flange 32 extends outwardly from first wing rear edge 28.

A second wing 24' is substantially identical to first wing 24 and accordingly will not be described in detail herein. Similar reference numerals with a prime are employed for similar parts.

Also, as will be seen, there is provided a shovel rear edge flange 34 which extends rearwardly of rear edge 20.

It will be understood that the above described embodiment is for purposes of illustration only and that changes and modifications can be made thereto without departing from the spirit or scope of the invention.